

Indice sistematico per numeri successivi del periodico

205

N. 1 7 Gennaio 1984

pag.

- 1 E. TRIANTAFILLOPOULOS - Vector and tensor meson production in γN processes in the backward direction.
- 7 E. TRIANTAFILLOPOULOS - Pseudoscalar meson production in γN processes in the backward direction.
- 14 M. KASUYA - An exact dyon solution with the Kerr-NUT metric.
- 16 SANG DON CHOI and OK HEE CHUNG - Theory of direct interband transition due to electron-phonon interactions in two weak-coupling schemes (Erratum).

N. 2 14 Gennaio 1984

pag.

- 17 M. SACHS - Proton-antiproton collisions and the W^\pm -particle from general relativity.
- 23 K. L. CHANG and S. S. LIAW - Magnetic monopole and mixing angle in Weinberg-Salam's theory.
- 28 M. T. TELI - Hexons and hexonic form of Maxwell's equations in six-dimensional space-time.

N. 3 21 Gennaio 1984

pag.

- 33 SHUI-YIN Lo and LI YANG-GUO - A unified approach to elastic scattering and inclusive spectrum in the geometrical picture.
- 38 M. T. TELI - Pappas' scheme of correlating R^6 and R^4 co-ordinate transformations.
- 41 F. BINON, S. V. DONSKOV, P. DUTEIL, M. GOUANÈRE, A. INYAKIN, V. A. KACHANOV, D. B. KAKAURIDZE, G. V. KHAUSTOV, A. V. KULIK, J. P. LAGNAUX, A. A. LEDNEV, YU. V. MIKHAILOV, J. P. PEIGNEUX, YU. D. PROKOSHIN, YU. V. RODNOV, S. A. SADOVSKY, A. V. SINGOVSKY, J. P. STROOT and V. P. SUGONYAEV (IHEP - HSN - LAPP COLLABORATION) - Observation of a spin-6 neutral meson $\pi(2510)$.

N. 4 28 Gennaio 1984

pag.

- 49 C. JARLSKOG - Reduced cross-sections for high-energy photon-photon collisions.
- 55 M. T. TELI - Pappas transformations through the invariance of electromagnetic-field equations.
- 59 C. FERRARIO and G. LO VECCHIO - On the pseudo nonintegrability of a Toda chain.

N. 5 4 Febbraio 1984

pag.

- 65 S. MINAMI - Is the resonance interpretation for $\sigma(\gamma\gamma \rightarrow \rho^0 \rho^0)$ ruled out by the data for $\rho^+ \rho^-$ production?
- 69 FAYYAZUDDIN and RIAZUDDIN - Unification of electromagnetic and strong interactions with a stable proton.
- 75 A. JANNUSSIS - Connection between master equation and Lie-admissible formation.

N. 6 11 Febbraio 1984

pag.

- 81 T. SUSKI, I. ORTALLI and A. SZCZERBAKOW - Anomalous resistivity in the ferroelectric phase transition of $\text{Pb}_{1-x}\text{Ge}_x\text{Te}$.
- 86 M. SURDIN - Spontaneous emission and stochastic electrodynamics.
- 89 G. MAINO and A. VENTURA - NBCS approach to the effective boson number in the interacting boson model.
- 96 C. G. KOUTROULOS - Propagation of the Pauli-Fierz wave equation in an external electromagnetic field.
- 99 S. HIRAI - Gluon condensation and the stringlike properties of hadrons.
- 105 F. ALONSO, J. JULVE and A. TIEMBLEO - The Hamiltonian formalism in curved internal spaces.
- 109 M. NISHIOKA - Remarks on an equation common to Weyl's gauge field, Yang-Mills field and Toda lattice.

N. 7 18 Febbraio 1984

pag.

- 113 A. LAMI and N. K. RAHMAN - Bifurcation theoretic analysis of discrete-continuum coupling in atomic and molecular systems.
- 119 B. C. COOK and T. A. WEBER - An analysis for the charge and point proton distribution of ^3He with minimal systematic error.
- 125 J. M. CERVERO - Induced-gravity and higher-curvature terms: classical solutions.
- 130 M. BOITI, C. LADDOMADA and F. PEMPINELLI - About a remark of Lindner on a paper by Boiti, Laddomada and Pempinelli.
- 131 P. S. KURZEPA and A. BECHLER - Solution of the renormalization group equation and ultraviolet asymptotics of gauge-dependent propagators in QCD.
- 136 L. DIÓSI - On the KNO affinity of a certain class of multiplicity distribution functions.
- 139 J. P. ALARD, J. ARNOLD, M. M. AVOME NZE, J. P. COSTILHES, L. FRAYSSE, W. RAJA and J. C. TAMAIN - Light-fragment production in alpha-alpha collisions at 218 MeV.

N. 8 25 Febbraio 1984

pag.

- 145 Y. AHARONOV, C. K. AU, E. C. LERNER and J. Q. LIANG - Consistency of the Aharonov-Bohm effect with quantum theory.
- 148 P. BOCCHERI and A. LOINGER - Quantum laws and Aharonov-Bohm effect.
- 151 G. ALDI, P. COPPA and A. DUPASQUIER - Positron annihilation study of surface deformation in steel.

- pag.
 157 G. C. GHIRARDI and T. WEBER - Finite-difference evolution equations and quantum-dynamical semi-groups.
 165 S. FILIPPI, I. D. NOVIKOV and R. RUFFINI - The capture of particles in an Einstein-Straus Universe. A Newtonian approach.
 171 M. HAYASHI and K. KATSUURA - What information can be obtained from the widths of the gauge vector boson?

N. 9 3 Marzo 1984

- pag.
 177 A. MALAGOLI and R. RUFFINI - On the gravitational red-shift of galactic halos.
 181 K. CAHILL - The gravitational constant.
 185 D. C. JOLLY - Isomorphic matrix representation of quaternion field theories.
 189 R. NATH - Energy uncertainty in the time-dependent coherent state.
 192 H. E. BRANDT - Maximal proper acceleration relative to the vacuum (Erratum).

N. 10 10 Marzo 1984

- pag.
 193 A. SYM - Soliton surfaces. - III: Solvable nonlinearities with trivial geometry.
 197 G. IASELLI and G. CATANESI - σ^n/σ^p value predictions for charged-current neutrino interactions.
 202 V. I. TERESCHENKOV and L. M. TOMIL'CHIK - On the field created by the closed Dirac string.
 205 M. GENTILI, I. MASSA, G. VANNINI, P. BOCCACCIO, F. REFFO, L. VANNUCCI, R. A. RICCI and I. IORI - Generalized extra-push model calculations and intermediate mechanisms for low-mass heavy-ion reactions.
 210 L. CROVINI and L. GALGANI - On the accuracy of the experimental proof of Planck's radiation law.
 215 F. ALONSO, J. JULVE and A. TIEMBLO - Minimal structure of the one-loop divergencies of the massive Yang-Mills theory.
 221 F. ALONSO, J. JULVE and A. TIEMBLO - Quantization of a φ^4 constrained model.

N. 11 17 Marzo 1984

- pag.
 225 A. GARUCCIO, A. KYPRIANIDIS, D. SARDELIS and J. P. VIGIER - Possible experimental test of the wave packet collapse.
 234 W. DE BAERE - On the significance of Bell's inequality for hidden-variable theories.
 239 S. SINZINKAYO and J. DEMARET - On vacuum solutions of scalar, SU_2 Yang-Mills and gravitation theories.
 247 H. ASPDEN - Electromagnetic-reaction paradox.
 252 F. SELLERI - Photon scattering with Doppler-shift in the atomic-cascade experimental tests of Bell inequalities.

N. 12 24 Marzo 1984

- pag.
 257 J.-P. LEBRUN - Electrodynamics of moving magnetic charges in chiral Lagrangian theory.

- pag.
 261 S. MINAMI – Exclusive central hadron production in pp collisions and gluonium contents of resonances.
 268 M. NISHIOKA – Remarks on Lie-isotopic lifting and the noncanonical commutation relations.
 271 H. ASPDEN – The muon g -factor by cavity resonance theory.
 276 E. FICOCELLI VARRACCHIO – On the T -approximation in atomic physics.
 281 S. IWAO – Extension of KRSV supersymmetric theories with false vacua to three space dimensions.
 285 Y. N. SRIVASTAVA and A. WIDOM – Quantum electrodynamic Hall effect in one time and two space dimensions.

N. 13 31 Marzo 1984

- pag.
 289 N. NISSANI – Conserved currents in the $SL_{2,C}$ gauge theory.
 294 K. SVOZIL – Weak spectral functions and their application to the decay of the W -boson.
 299 T. INAGAKI – On the phase of wave function and the gauge invariance in non-relativistic quantum mechanics.

N. 14 7 Aprile 1984

- pag.
 305 F. CALOGERO – Interpolation, differentiation and solution of eigenvalue problems for periodic functions.
 312 G. MORANDI – Comments on the possibility of anomalous quantization of angular momentum in multiply connected regions.
 315 F. GONZÁLEZ-GASCÓN and A. GONZÁLEZ-LÓPEZ – Another method for the obtention of first integrals of dynamical systems.
 319 M. KIBLER and T. NEGADI – Hydrogen atom in a uniform electromagnetic field as an anharmonic oscillator.
 324 C. G. KOUTROULOS – Pauli-Fierz and Rarita-Schwinger wave equations and their equivalence.
 327 G. IASELLI and A. PEDRITIS – QCD fits to the BEBC structure function using the « Baulieu-Kounnas » approach.
 331 R. M. NUGAYEV – Particle creation by a black hole as a consequence of the Casimir effect.

N. 15 14 Aprile 1984

- pag.
 337 A. KYPRIANIDIS and D. SARDELIS – A H -theorem in the causal stochastic interpretation of quantum mechanics.
 347 Y. KOIDE – Three-fermion model for quarks and leptons with three families.
 353 G. CEVOLANI – An anomalous atmospheric-wave aspect: the quasi-2-day oscillations.
 364 V. N. MELNIKOV and V. K. SHIGOLEV – Exact SO_3 magnetic-monopole solutions in the expanding universe.

N. 16 21 Aprile 1984

- pag.
369 M. NISHIOKA - Extension of the Dirac-Myung-Santilli delta-function to field theory.
373 M. SEBAWEH ABDALLA and R. K. COLEGRAVE - A model for modulated damping or growth of a harmonic oscillator in classical or quantum mechanics.
380 V. YA. PANCHENKO - Nonlinear vibration-translation energy exchange in a gas of partially dissociated molecules.
383 A. SCALIA - Entrance channel effects in heavy-ion reactions.
390 F. DE LUCA - Full-rotating frame NMR imaging.
393 S. SAKAI - Fermion effect on instantons in the OP^1 model in 2 dimensions.
398 R. MIRMAN - The dimension of space-time.

N. 17 28 Aprile 1984

- pag.
401 A. D. LINDE - Quantum creation of the inflationary universe.
406 R. MIGNANI - Do cross-sections get modified in nonpotential scattering theory?
413 R. MIGNANI - Lie-isotopic lifting of SU_N symmetries.
417 C. LIVERANI, G. SERVIZI and G. TURCHETTI - Some KAM estimates for the Siegel centre problem.
424 P. AMMIRAJU - Thermodynamics of fast-moving hadronic bodies.
429 W.-H. STEEB, M. KLOKE, B. M. SPIEKER and A. GRAUEL - Singular point analysis of nonlinear wave equations.

